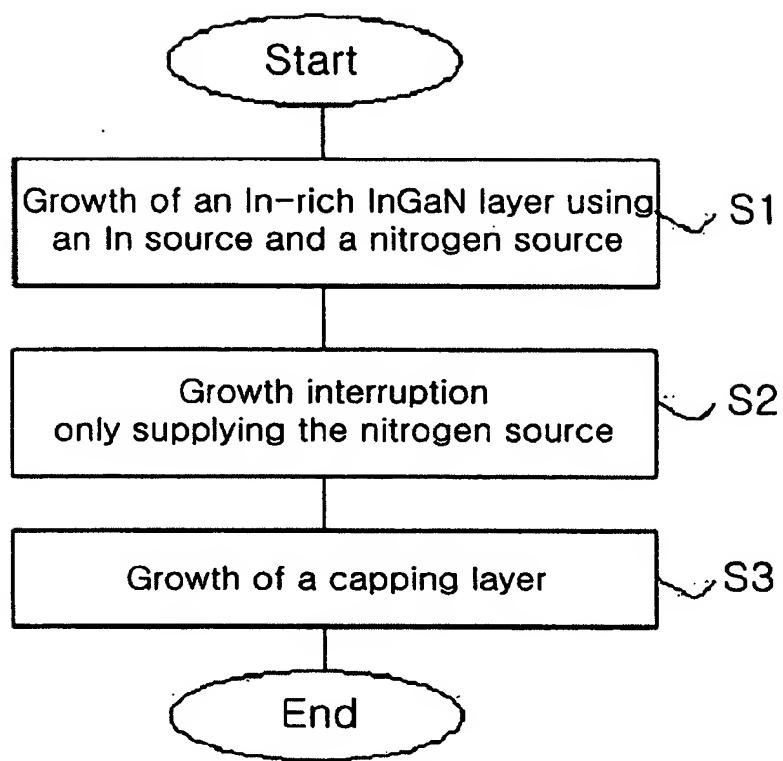


1/8

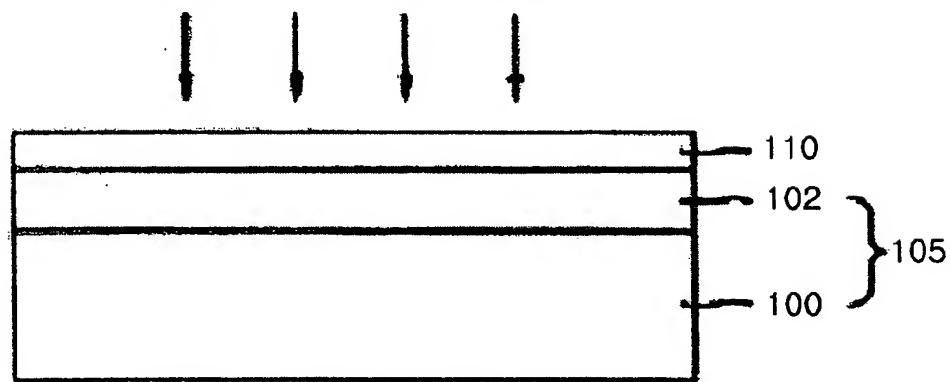
FIG. 1



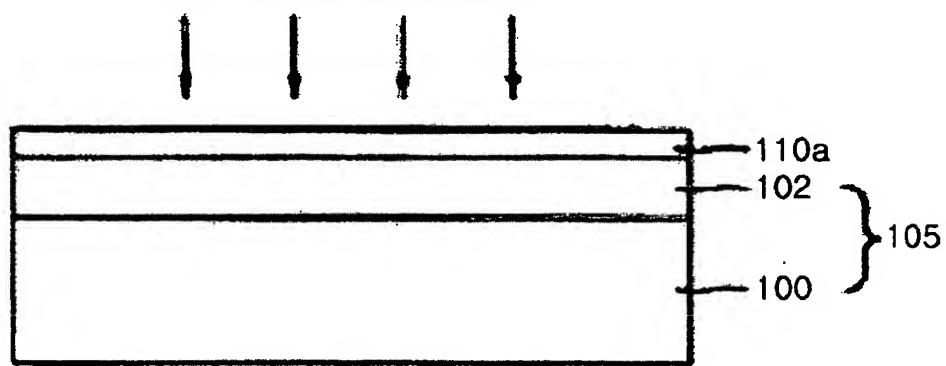
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FIG. 2

group III source + nitrogen source/at a high temperature

**FIG. 3**

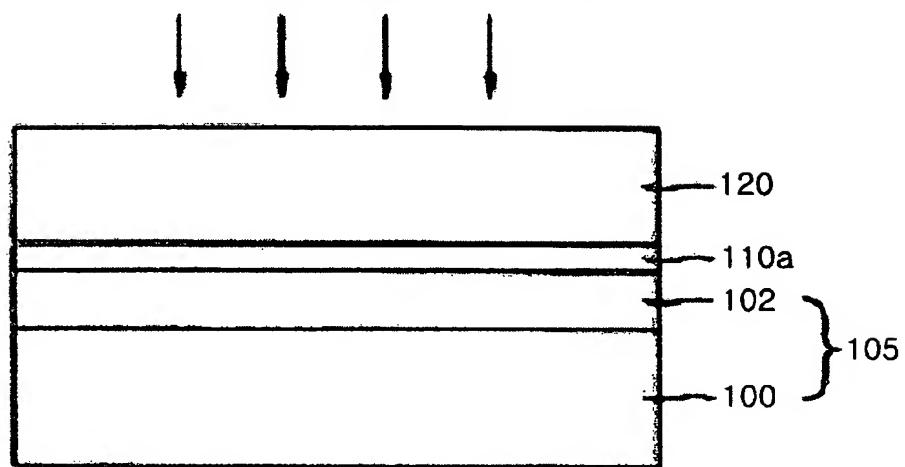
nitrogen source/at a high temperature



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FIG. 4

group III source + nitrogen source/at a low temperature

**FIG. 5**

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FIG. 6

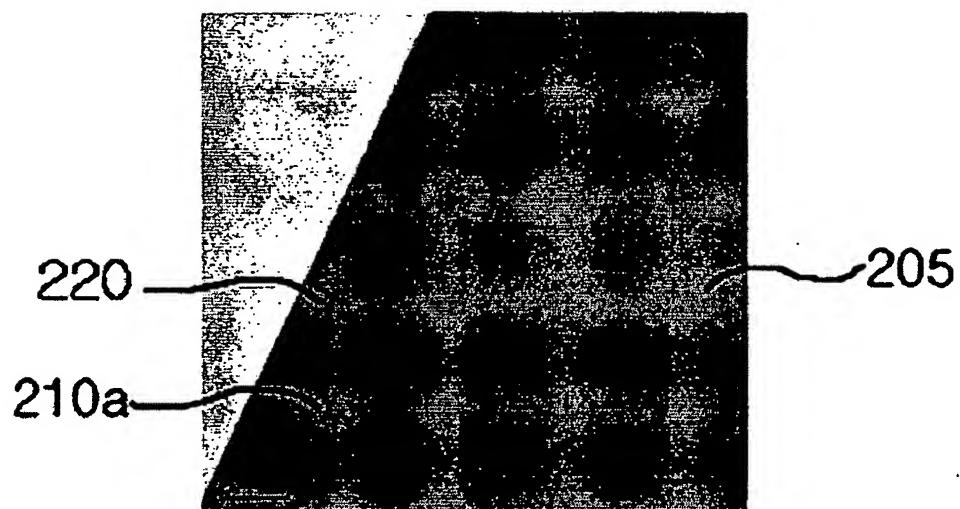
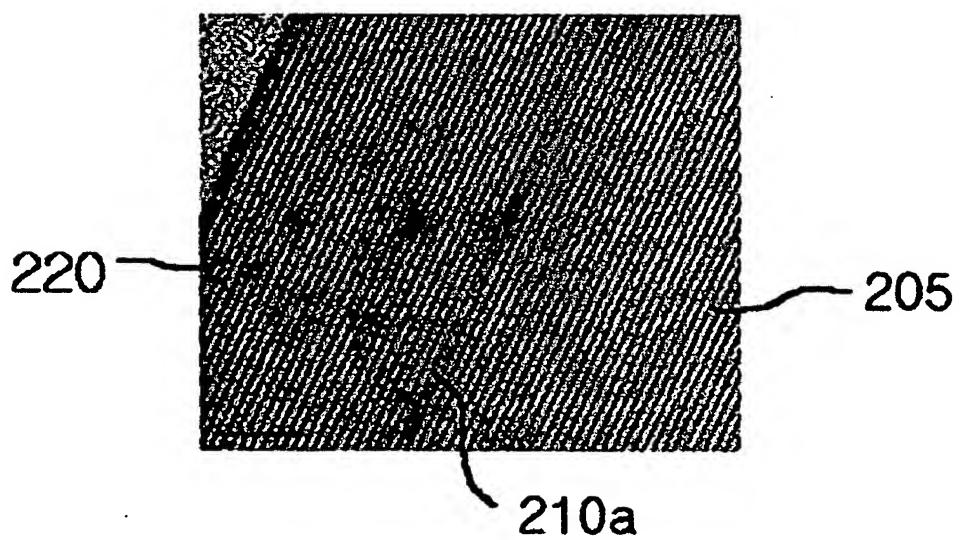


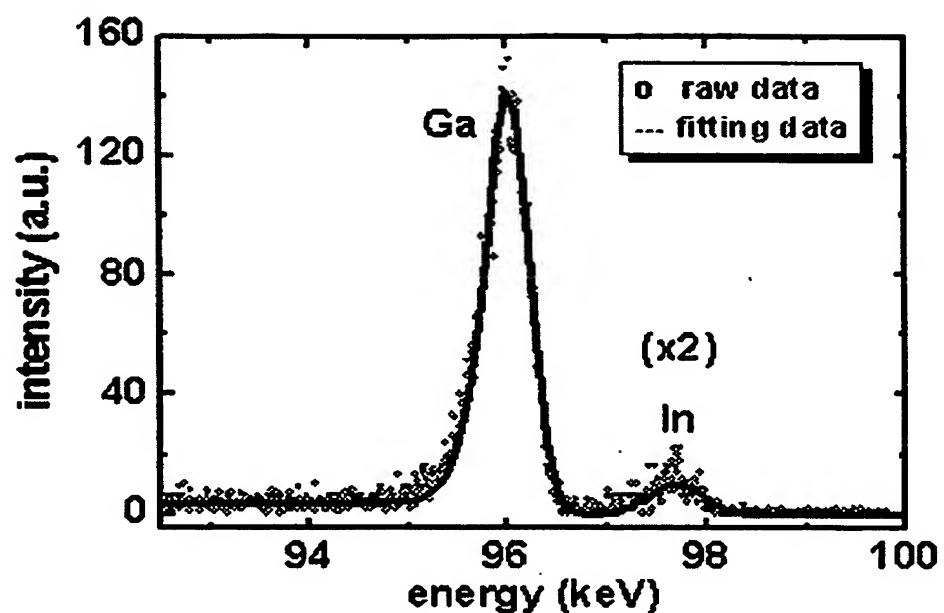
FIG. 7



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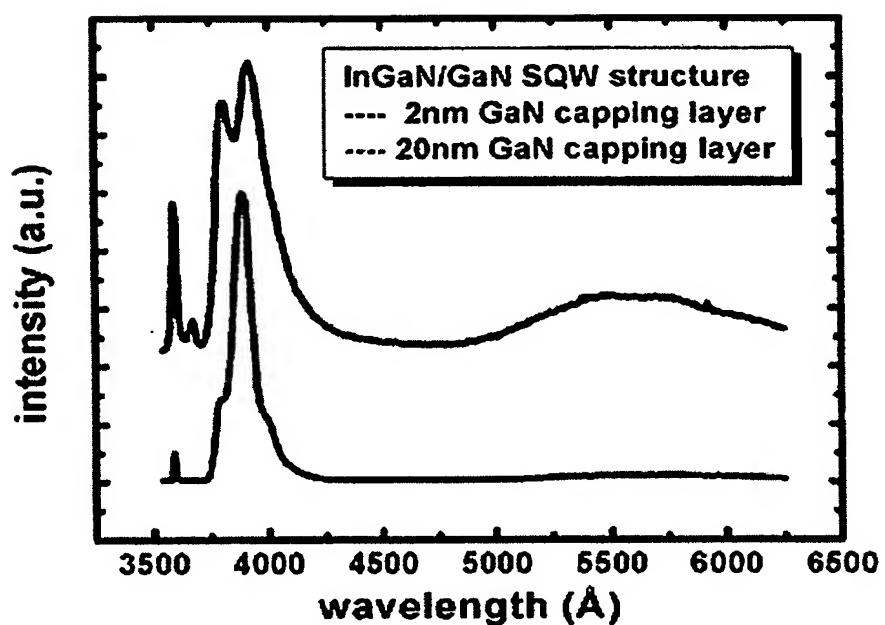
FIG. 8



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FIG. 9



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FIG. 10

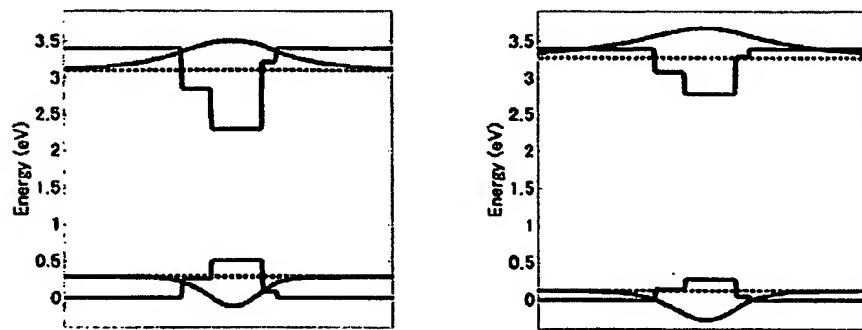
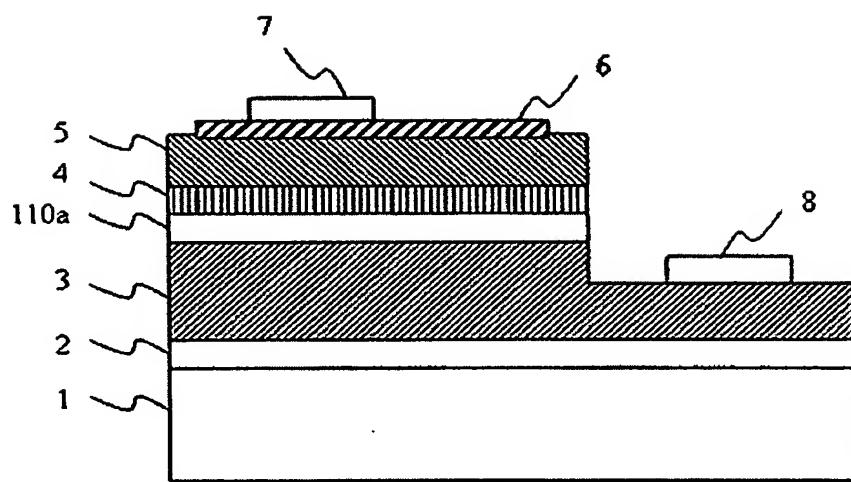
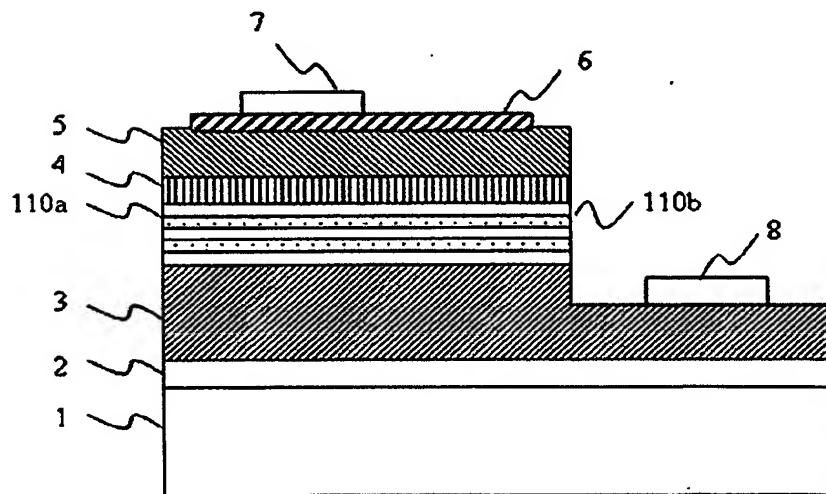


FIG. 11

InN	$E_g = 0.7 \text{ eV}$	$m_{\text{e}}^* = 0.042 m_0$	$m_{\text{hh}}^* = 1.6 m_0$	(Case I)
	$E_g = 1.9 \text{ eV}$	$m_{\text{e}}^* = 0.11 m_0$	$m_{\text{hh}}^* = 1.6 m_0$	(Case II)
GaN	$E_g = 3.4 \text{ eV}$	$m_{\text{e}}^* = 0.20 m_0$	$m_{\text{hh}}^* = 1.9 m_0$	

Energy level	$E_{\text{c},0}$	$E_{\text{v},0}$	Emission energy level
Case I	3.0982 eV	0.2907 eV	2.8075 eV (442 nm)
Case II	3.2826 eV	0.1265 eV	3.1561 eV (393 nm)

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FIG. 12**FIG. 13****BEST AVAILABLE COPY**